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System and Method for Indicating a Status of
Multiple Features of a Data Processing System

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Fig. 1

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APPLICATION PROGRAMS	56
SYSTEM RESOURCE MONITOR	54
MIDDLEWARE	53
APPLICATION PROGRAM INTERFACE	52
OPERATING SYSTEM	50

Fig. 2

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```
  ┌─┐   📁  ┌──────────┐ ┌ 104
  │─│       │Inventory │
  └─┘   └──────────┘
   │  108 ┌+┐----🔍  Basic System
   │      └─┘
   │       ----( 🔍)  Drives
   │      ┌+┐----🔍  Human Interface
   │      └─┘
   │      ┌+┐----🔍  Memory
   │      └─┘
   │      ┌+┐--( 🔍)  Multimedia
   │      └─┘
   │      ┌+┐----🔍  Operating System
   │      └─┘
   │       ----🔍  Ports
  ┌─┐   📁  Monitors
  │─│
  └─┘       ---( 🔍)  Event Viewer
   │  102 ----🔍  System Health
  ┌─┐   📁  Configuration
  │─│
  └─┘       ----🔍 •  Alert On LAN
   │      ┌+┐----🔍  ▨Asset ID▨
   │      └─┘
   │  106  ----🔍  Date & Time
   │      ┌+┐--( 🔍)  Network
   │      └─┘
   │       ----🔍  SNMP
   │       ----🔍  User Security
  ┌─┐   📁  Tools
  │─│
  └─┘      ┌+┐----🔍  Remote Control
   │      └─┘
   │       ----🔍  Shutdown
  ┌─┐   📁  Web Links
  │─│
  └─┘       ----🔍  System Update
```
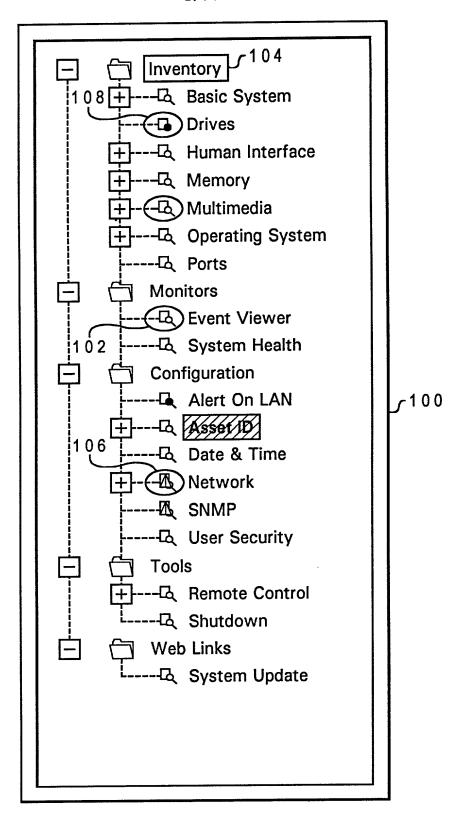
100

Fig. 3A
Prior Art

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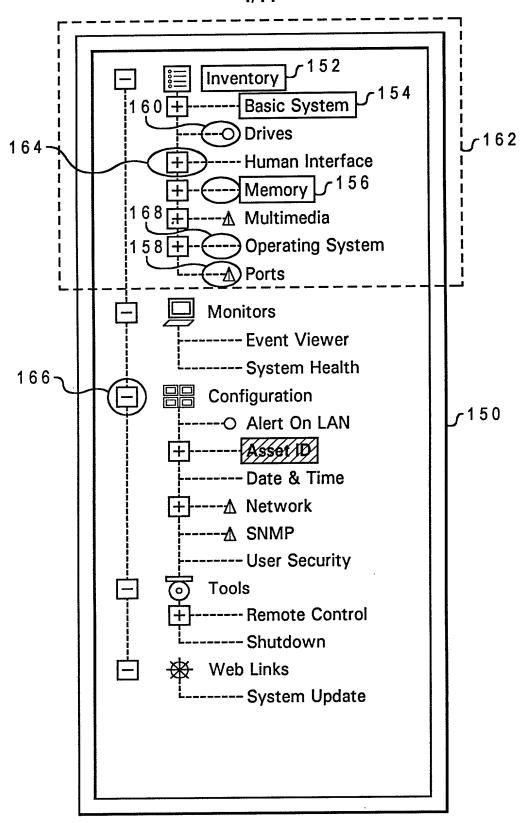Multiple Features of a Data Processing System

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Inventory ⌐152
160 [+]------ Basic System ⌐154
          ⊝---○ Drives
164 ⟨[+]⟩------ Human Interface ⌐162
    [+]⟨⊝---⟩ Memory ⌐156
168 [+]------△ Multimedia
158 [+]⟨⊝---⟩ Operating System
          ⊝---△ Ports

Monitors
    -------- Event Viewer
    ‖------- System Health
166 ⟨⊟⟩ Configuration ⌐150
    ------○ Alert On LAN
    [+]------ Asset ID
    -------- Date & Time
    [+]----△ Network
    -----△ SNMP
    -------- User Security
Tools
    [+]------ Remote Control
    ‖------- Shutdown
Web Links
    ‖------- System Update

Fig. 3B

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Fig. 4A

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Lines of Business ⊗ 👤 🔒

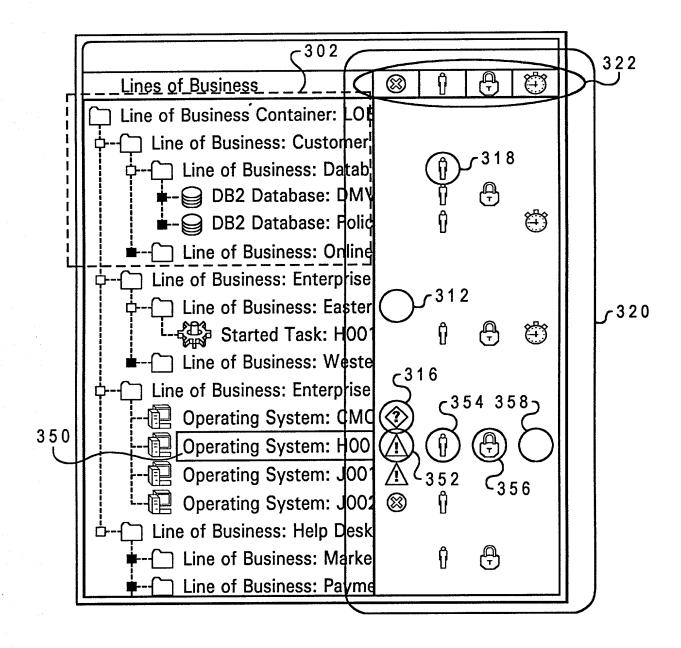Line of Business Container: LOBC
⌐ Line of Business: Customer Data
⌐ Line of Business: Database 👤
■ 🗄 DB2 Database: DMV Data 👤 🔒
■ 🗄 DB2 Database: Policy Dat 👤
■ ⌐ Line of Business: Online Appl
⌐ Line of Business: Enterprise JES
⌐ Line of Business: Eastern Ope
⚙ Started Task: H001 JES 👤 🔒
■ Line of Business: Western Op
⌐ Line of Business: Enterprise Oper
Operating System: CMC1 ⬦?
Operating System: H001 ⚠ 👤 🔒
Operating System: J001 ⚠
Operating System: J002 ⊗ 👤
⌐ Line of Business: Help Desk
■ Line of Business: Marketing 👤 🔒
■ Line of Business: Payments

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324

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Fig. 4B

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<u>3 0 0</u>

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Lines of Business

Line of Business Container: LOBC

Line of Business: Customer Datab

Line of Business: Database

DB2 Database: DMV Data

DB2 Database: Policy Dat

Line of Business: Online Appli

Line of Business: Enterprise JES

Line of Business: Eastern Ope

Started Task: H001 JES

Line of Business: Western Op

Line of Business: Enterprise Oper

Operating System: CMC1

Operating System: H001

Operating System: J001

Operating System: J002

Line of Business: Help Desk

Line of Business: Marketing

Line of Business: Payments

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Fig. 4C

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Fig. 4D

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Fig. 4E

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Fig. 4F

Lines of Business	Owned	Locked	Scheduled
Line of Business Container: LOBC			
Line of Business: Customer Datab			
Line of Business: Database	🔒		
DB2 Database: DMV Data	🔒		
DB2 Database: Policy Dat	🔒		
Line of Business: Online Appli	🔒	🔒	⏱
Line of Business: Enterprise JES			
Line of Business: Eastern Ope			
Started Task: H001 JES	🔒	🔒	⏱
Line of Business: Western Op	🔒		
Line of Business: Enterprise Oper			
Operating System: CMC1			
Operating System: H001	🔒	🔒	
Operating System: J001	🔒		
Operating System: J002			
Line of Business: Help Desk	🔒	🔒	
Line of Business: Marketing			
Line of Business: Payments			

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334
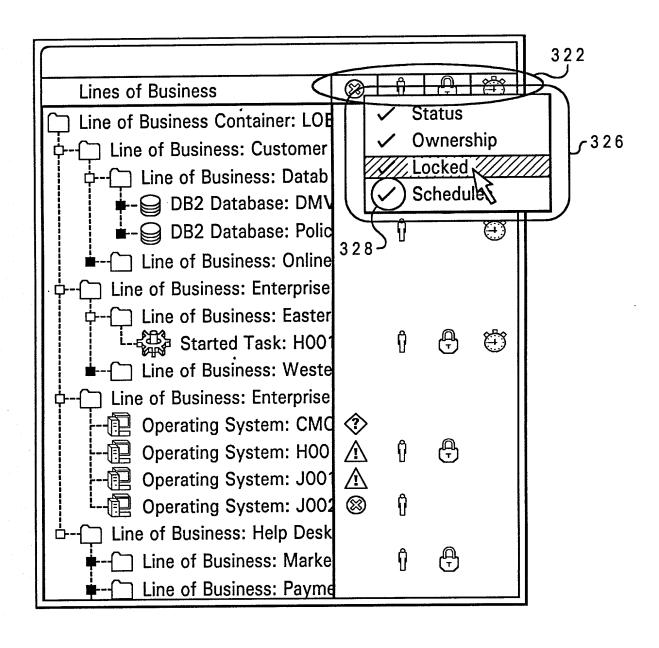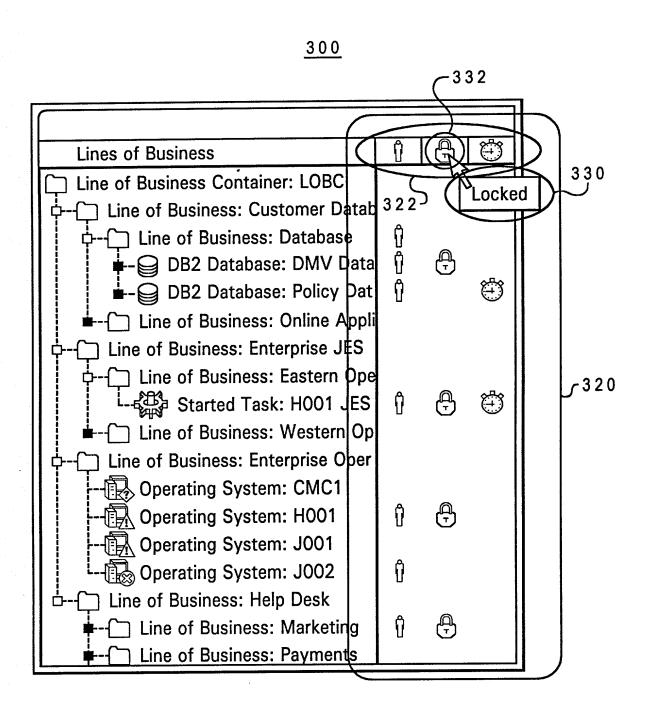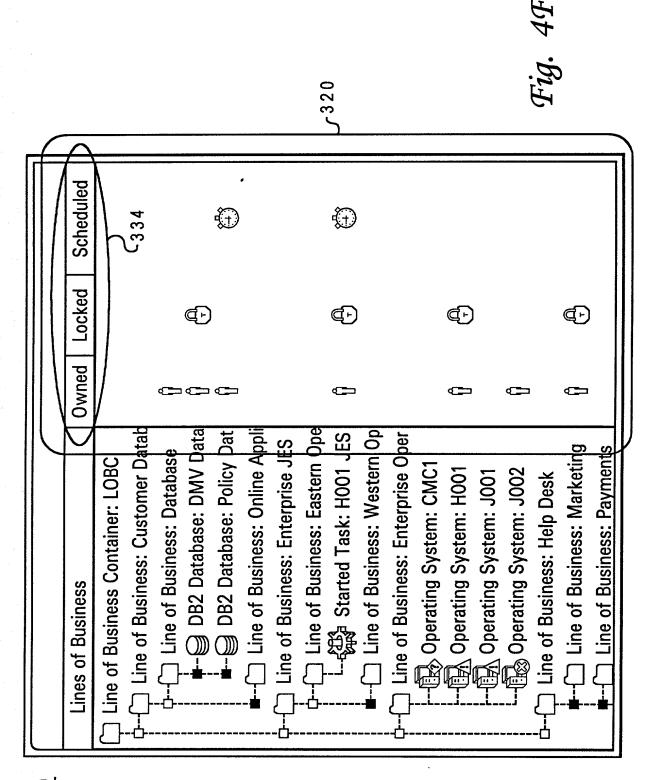
300

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Fig. 5

```
       ┌──────────┐  ┌ 4 0 0
       │  Start   │
       └────┬─────┘
            │       ┌ 4 0 2
            ▼
   ┌─────────────────┐
   │ Construct and   │
   │ display a       │
   │ multi-level tree│
   │ structure       │
   └────────┬────────┘
            │
            ●◄──────────────────────────────────────┐
            │       ┌ 4 0 4                          │
            ▼                                        │
   ┌─────────────────┐                               │
   │ Monitor multiple│                               │
   │ features of a   │                               │
   │ data processing │                               │
   │ system for      │                               │
   │ information     │                               │
   │ regarding the   │                               │
   │ multiple        │                               │
   │ attributes of   │                               │
   │ the status of   │                               │
   │ the features    │                               │
   └────────┬────────┘                               │
            │       ┌ 4 0 5                          │
            ▼                                        │
   ┌─────────────────┐                               │
   │ Display a       │                               │
   │ textual         │                               │
   │ identification  │                               │
   │ of the features │                               │
   └────────┬────────┘                               │
            │       ┌ 4 0 6            ┌ 4 0 8       │
            ▼                 ┌────────────────────┐ │
         ╱────────╲          │ Display a          │ │
        ╱  Does    ╲  Yes    │ placeholder icon   │ │
       ╱ information ╲───────►│ in a correct row   │─┤
       ╲ indicate a  ╱        │ and column in a    │ │
        ╲  normal   ╱         │ window overlying   │ │
         ╲ state ? ╱          │ the textual        │ │
          ╲──────╱            │ identification     │ │
            │ No              └────────────────────┘ │
            │      ┌ 4 1 0                            │
            ▼                                         │
   ┌─────────────────┐                                │
   │ Information     │                                │
   │ indicates a     │                                │
   │ notification    │                                │
   │ state           │                                │
   └────────┬────────┘                                │
            │      ┌ 4 1 2                            │
            ▼                                         │
   ┌─────────────────┐                                │
   │ Display an      │                                │
   │ appropriate     │                                │
   │ notification    │                                │
   │ indicia in a    │                                │
   │ correct row and │                                │
   │ column in a     │                                │
   │ window          │                                │
   │ overlying the   │                                │
   │ textual         │                                │
   │ identification  │                                │
   └────────┬────────┘                                │
            │                                         │
            └─────────────────────────────────────────┘
```